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## WHAT IS CLAIMED IS:

1. A system for visually displaying bottlenecks in a real-time, comprising:

an application integration platform that receives plural types of data from manufacturing and information systems, said application integration platform analyzing plural types of data to determine bottleneck conditions:

a process control server that receives said barcode and sensor information from at least one work center and forwards said barcode and sensor information to said application integration platform;

a database containing barcode and sensor information; and

- a graphical user interface that interfaces with said application integration platform to provide a visual display of bottlenecks determined based on said barcode and sensor information.
- 2. The system recited in claim 1, wherein said application integration platform further determines key performance indicators, said key performance indicators including at least one of: throughput time, manufacturing hours, work center utilization, man-hour capacity, planned vs. actual hours for work orders, and work in process.
- 3. The system recited in claim 2, wherein said key performance indicators are determined in accordance with at least one of a work order number, a work station identifier, a start time, an end time, an activity code, a problem code, employee information, a material code, a planned start time, and a planned completion time.
- 4. The system recited in claim 1, wherein said graphical user interface further provides reports generated in response to user inputs, said user inputs including at least one of: a range of dates, a range of times, a selection of work station, a selection of work center, a selection of work unit, and an employee identifier.
- 5. The system recited in claim 1, wherein bottlenecks are identified in said graphical user interface in accordance with a level of utilization of a particular resource, and wherein a detailed information regarding said particular resource is displaying in response to a user request.

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 The system recited in claim 5, wherein a meantime between failure analysis is provided, and wherein user-selectable control parameters are provided to adjust said meantime between failure analysis.

- 7. The system recited in claim 5, wherein a work in progress analysis is provided.
- 8. A system for visually displaying manufacturing bottlenecks and real-time enterprise management information, comprising:

an application integration platform that receives plural types of data from manufacturing and information systems within an enterprise via a network infrastructure and analyzes said plural types of data in response to user inputs;

- a process control server that receives manufacturing data from at least one work center and forwards said manufacturing data to said application integration platform;
  - a database containing said manufacturing data; and

a user interface that displays the analyzed plural types of data to determine bottlenecks and key performance indicators,

wherein said at least one work center contains manufacturing machines, and a controller that receives said data from said barcodes and sensors associated with said manufacturing machines and communicates said barcode and sensor data to said process control server.

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The system recited in claim 8, wherein said key performance indicators include at least one of: throughput time, manufacturing hours, work center utilization, man-hour capacity, planned vs. actual hours for work orders, and work in process.

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10. The system recited in claim 8, wherein said key performance indicators are selected in accordance with differing classes of users and determined in accordance with at least one of a work order number, a work station identifier, a start time, an end time, an activity code, a problem code, employee information, a material code, a planned start time, and a planned completion time.

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11. The system recited in claim 10, wherein said user interface provides reports generated in response to: a range of dates, a range of times, a selection of work station, a selection of work center, a selection of work unit, and an employee identifier.

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- 12. The system recited in claim 8, wherein bottlenecks are identified in said user interface in accordance with a level of utilization of a particular resource, and wherein a detailed information regarding said particular resource is displaying in response to a user request.
- 13. The system recited in claim 12, wherein a meantime between failure analysis is provided, and wherein user-selectable control parameters are provided to adjust said meantime between failure analysis.
  - 14. The system recited in claim 12, wherein a work in progress analysis is provided.
  - 15. A method of visually displaying bottleneck information in an enterprise manufacturing system, said method comprising:

obtaining barcode and sensor data from at least one work center having at least one manufacturing machine;

storing said barcode and sensor data in a database containing information related to manufacturing processes performed at said at least one work center:

analyzing said manufacturing data to determine key performance indicators and bottlenecks; and

presenting differing ones of said key performance indicators and bottlenecks to different classes of end users in accordance with user-selected input parameters.

16. The method of claim 15, wherein said key performance indicators include at least one of: throughput time, manufacturing hours, work center utilization, man-hour capacity, planned vs. actual hours for work orders, and work in process.

17. The method of claim 15, wherein said key performance indicators are determined in accordance with a selection of at least one of a work order number, a work station identifier, a

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start time, an end time, an activity code, a problem code, employee information, a material code, a planned start time, and a planned completion time.

18. The method recited in claim 15, further comprising:

identifying bottlenecks in a graphical user interface in accordance with a level of utilization of a particular resource; and

providing additional information regarding said particular resource in response to a user request.

10 19. The method recited in claim 18, further comprising:

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performing a meantime between failure analysis; and

providing user-selectable control parameters to adjust said meantime between failure analysis.

 The method recited in claim 18, further comprising providing a work in progress analysis.